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APPLICATION NUMBER: 60/535,519

FILING DATE: January 12, 2004

By Authority of the
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L. Edelen

L. EDELEN
Certifying Officer

16698 U.S. PTO
011204

PTO/SB/16 (08-03)

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No.

INVENTOR(S)					
Given Name (first and middle (if any))		Family Name or Surname		Residence (City and either State or Foreign Country)	
(1) Jean		(1) BRAULT		(1) Lachine, Quebec, CANADA	
Additional inventors are being named on the <u>1</u> separately numbered sheets attached hereto					
TITLE OF THE INVENTION (500 characters max)					
SUSPENDED MOBILE WORK TABLE ASSEMBLY					
Direct all correspondence to: CORRESPONDENCE ADDRESS					
<input checked="" type="checkbox"/> Customer Number: <u>23863</u>					
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ENCLOSED APPLICATION PARTS (check all that apply)					
<input checked="" type="checkbox"/> Specification Number of Pages <u>4</u>					
<input type="checkbox"/> CD(s), Number _____					
<input checked="" type="checkbox"/> Drawing(s) Number of Sheets <u>5</u>					
<input checked="" type="checkbox"/> Other (specify) <u>PTO-FB-235(8-83)</u>					
<input type="checkbox"/> Application Date Sheet. See 37 CFR 1.76					
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT					
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.					
<input checked="" type="checkbox"/> A check or money order is enclosed to cover the filing fees. <u>#173976 739-211</u>					
<input checked="" type="checkbox"/> The Director is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: <u>1281110</u>					
<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.					
FILING FEE Amount (\$) <u>80.00</u>					
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.					
<input checked="" type="checkbox"/> No.					
<input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: _____					

031431 U.S. PTO
60/535519

011204

Respectfully submitted,

SIGNATURE

TYPED or PRINTED NAME FRANCOIS MARTINEAU

TELEPHONE (514) 861-4831

[Page 1 of 2]

Date

REGISTRATION NO. 33072

(if appropriate)

Docket Number: 3121-1

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Provisional Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Docket Number 3121-1

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Given Name (first and middle [if any])	Family or Surname	Residence (City and either State or Foreign Country)
(2) Annie	(2) ROY	(2) Montréal, Quebec, CANADA
(3) Thierry	(3) KRICK	(3) Coteau-du-Lac, Quebec, CANADA

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Number 1 of 1

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**TITLE OF THE INVENTION: SUSPENDED MOBILE WORK TABLE
ASSEMBLY**

DESCRIPTION OF THE DRAWINGS

In the annexed drawings :

5 Figure 1 is a top perspective view of a first embodiment of work table assembly, without the swivel part and the work surface unit;

 Figure 2 is a top perspective view of this work table assembly of figure 1, with the swivel part but still without the work surface unit;

 Figures 3 and 4 are top perspective photographic views of the work table
10 assembly of figure 1, suggesting the relative displacement capability;

 Figure 5 is a top partial perspective view of an alternate embodiment of this work table assembly;

 Figure 6 is an enlarged top partial perspective view of this work table assembly of figure 5, showing particularly the tubular array and ball bearing mounts;

15 and

 Figure 7 is a side edge view of this work table assembly of figure 5..

DETAILED DESCRIPTION OF THE EMBODIMENTS

When a bio-medical practitioner, such as a dentist or a surgeon, works, an operation field is needed, to facilitate arm's length access to various professional tools and instruments required, while preventing accidental contamination with potentially contaminated fluids such as blood in view of protecting the patient's health and safety. Standard sterile or clean status of this operation field is thus set.

The work table assembly 10 consists of an open tubular array 12 over which is mounted a planar structural plate unit 14. The tubular array 12 includes for example a first pair of parallel rods 16, 18 and a second pair of parallel rods 20, 22, spacedly interconnecting the first rods 16 and 18. (Each rod 16, 18, 20, 22 may be cylindrical or other extruded shape) Two pairs of ball bearing mounting units 24 are slidably mounted along first rods 16, 18, and fixedly mounted to the opposite ends of the seconds rods 20, 22, respectively. Both pairs of mounting units 24 are linked together with a quadruple cross-shape linkage 34 (see the embodiment of figure 1), or alternately, a plate 34a (see the embodiment of figures 5-6).

Each end of each of the two pairs of opposite ends of the first rods 16, 18, is fitted with a bracket member 26, for anchoring the mechanism to a horizontal

structure, for example a cabinet or a wall mounted shelf, spacedly over ground. The underface of structural plate 14 centrally carries a large swivel member 32. This swivel member is attached to the underface of the work surface unit 36, allowing the latter to freely rotate relative to the underlying structural plate 14. Two other pairs of
5 bearing mounting units 30 are slidably mounted along second rods 20, 22. Those 4 bearings are affixed to the structural plate 14, allowing the work table unit 36 to slide fore and aft with the plate 14 along the rods 20, 22.

The present tubular array 12 enables a movement range for the work surface unit 36 thereover which includes :

- 10 - Transverse sliding motion along parallel rods 16 and 18; and
- Fore and aft sliding motion along parallel rods 20 and 22 transversely to rods 16 and 18 .

The advantages of the present work surface assembly compared to prior art includes :

- 15 1. enhanced flexibility, to provide optimum ergonomic position for the practitioner.;
- 2. compactness of the tubular array;
- 3. improved stability of the work surface unit;
- 4. improved control of movement of the work surface unit;
- 5. greater range of work surface unit positions at arm's length for the practitioner;

6. ambidextrous-able (i.e. suitable for left-handed or right-handed practitioners;
7. compatible with a large range of sizes of work surface units;
8. adaptable for simultaneous use by two different practitioners.

Accordingly, the present invention includes an ergonomically designed
5 flat work surface unit 36, which may have raised peripheral edges, wherein the work
surface unit 36 can travel laterally, fore and aft, and/or to rotate within predetermined
positions. This work surface assembly 10 does not require electric power, air or
hydraulic power to operate.

It is understood that to limit the likelihood of cross-contamination risks,
10 all tools, supplies, instruments and apparatuses required for treating a patient should
be dedicated to that patient only and consequently be stored onto the operating field of
that patient. The other tools and instruments not needed for that particular patient,
should be stored elsewhere, away from the operating field, being protected against
other patients' bodily fluids splatters. The large size surface allows the practitioner's
15 assistant to prepare and concentrate the instruments and supplies close to the patient's
body part that is being treated.

The no-spill raised peripheral edge protects instruments or other items on
the work surface from accidentally falling down, and also prevents spillage in case of
container leakage. The inherent stability of the present invention design substantially

ensures constant surface levelling of the work surface top face, to avoid any accidental liquid overflow.

Once the medical treatment has been completed, every item on the work
5 surface unit top face needs to be decontaminated, sterilized or disposed of following local regulations. The work surface exposed top face needs itself to be disinfected before the next treatment may occur.

I CLAIM:

- 5 A work table assembly consisting of an open tubular array over which is mounted a swivel unit, the tubular array including a first pair of parallel rods and a second pair of parallel rods spacedly interconnecting the first rods; two pairs of ball bearing mounting units are slidably mounted along first rods and fixedly mounted to the opposite ends of the seconds rods respectively;
- 10 both pairs of mounting units being inter-linked with a quadruple cross-shape linkage, each end of each of the two pairs of opposite ends of the first rods is fitted with a bracket member, for anchoring to a cabinet or wall mounted shelf for supporting the work table assembly spacedly over ground; two other pairs of ball bearing mounting units are slidably mounted along second pair of rods and are affixed to the swivel
- 15 unit; the swivel unit rotatably carrying a planar work surface unit, wherein the work surface unit can freely travel laterally, fore and aft, and/or rotatively under manual guiding push-pull motion from the practitioner.

**DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION
DECLARATION POUR DEMANDES DE BREVETS AVEC POUVOIRS**

**FRENCH LANGUAGE DECLARATION
form PTO-FB-235(8-83)**

En tant qu'inventeur nommé ci-après, je déclare par les présentes que mon nom, mon domicile, mon adresse postale et ma nationalité sont ceux qui figurent ci-après. Je déclare que je crois être l'inventeur original, premier et unique (si un seul nom figure sur le présent acte) ou un des co-inventeurs, originaux et premiers (si plusieurs noms figurent sur le présent acte) du sujet revendiqué et pour lequel un brevet est demandé sur la base de l'invention intitulée :

As a below-named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled :

SUSPENDED MOBILE WORK TABLE ASSEMBLY

dont la description :

☐ est annexée aux présentes;

☐ a été déposée :

➤ Demande de brevet No. :

➤ Date de dépôt :

dont la description :

☒ is attached hereto;

☐ was filed:

➤ Patent application No.:

➤ Filing date:

Je déclare par les présentes avoir examiné et compris le contenu de la description identifiée ci-dessus, revendications y compris, et le cas échéant telle que modifiée par un amendement. Je reconnais le devoir de divulguer toute information qui soit en rapport avec l'examen de cette demande selon le titre 37 de la Codification des Règlements Fédéraux § 1.56(a). Je revendique par les présentes le bénéfice de priorité selon le titre 35 de la codification des États-Unis, § 119 de toute demande de brevet ou tout certificat d'auteur énuméré ci-après, et j'ai identifié également ci-après toute demande de brevet ou de certificat d'auteur ayant une date de dépôt antérieure à celle de la demande pour laquelle la priorité est revendiquée.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a). I hereby claim priority benefits under Title 35, United States Code, § 119 of any application(s) for patent or inventor's certificate listed below and have also identified below any application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Demande(s) antérieure(s) / Prior applications:

➤ Pays / Country:

➤ Demande N° / Serial N°:

➤ Date de depot / Filing date:

Je reconnais le devoir de divulguer l'information pertinente selon le titre 37 de la codification des règlements fédéraux, § 1.56(a), sur toute information qui se présente entre la date de dépôt de la demande antérieure et la date de dépôt de cette demande, soit nationale, soit internationale PCT. Je déclare par les présentes que toutes mes déclarations, à ma connaissance, sont vraies et que toutes les déclarations faites à partir de renseignements ou de

I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 (a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the

renseignements ou de suppositions, sont tenues pour être vraies; de plus, toutes ces déclarations ont été faites en sachant que de fausses déclarations volontaires ou autres actes de même nature sont sanctionnés par une amende ou un emprisonnement, ou les deux, selon l'article 1001, du titre 18 de la Codification des États-Unis, et que des déclarations délibérément fausses peuvent compromettre la validité de la demande ou du brevet délivré.

with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.

Je revendique par le présent acte tout bénéfice, en vertu du Titre 35, § 120 du Code des États-Unis, de toute demande de brevet effectuée aux États-Unis, ou en vertu du Titre 35, § 365 (c) du même Code, de toute demande internationale PCT désignant les États-Unis et figurant ci-dessous et, dans la mesure où l'objet de chacune des revendications de cette demande de brevet n'est pas divulgué dans la demande antérieure américaine ou internationale PCT, en vertu des dispositions du premier paragraphe du Titre 35, § 112 du Code des États-Unis, je reconnais devoir divulguer toute information pertinente à la brevetabilité, comme défini dans le Titre 37, § 1.56 du Code fédéral des réglementations, dont j'ai pu disposer entre la date de dépôt de la demande antérieure et la date de dépôt de la demande nationale ou internationale PCT de la présente demande :

I hereby claim the benefit under Title 35, United States code, § 120 of any United States application(s), or § 365 (c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United states Code § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application :

- No. de la demande/*Application number* :
- Date de dépôt/*Filing date* :
- Statut/*Status* :

POUVOIR

En tant qu'inventeur, je désigne les agents de brevets suivants pour poursuivre la procédure de cette demande et traiter toute affaire la concernant par devant le bureau des brevets et marques:

François Martineau
Reg. N° 33072

Louis Martineau
Reg. N° 43676

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Je nomme également comme représentant pour signification aux fins de recevoir tout avis affectant le brevet ou les droits en découlant :

Mr. Marvin Petry, de la firme
LARSON & TAYLOR
Transpotomac Plaza
1199, rue North Fairfax, Bureau 900
Alexandria, Virginia
États-Unis d'Amérique

Nom complet du seul ou premier inventeur:

Signature de l'inventeur :



Date : 23 décembre 2003

Domicile :

Citoyenneté :

Adresse postale :

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following patent agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

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Reg. N° 33072

Louis Martineau
Reg. N° 43676

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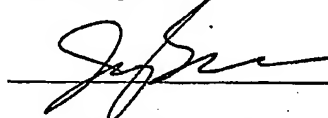
I further appoint as domestic representative to whom may be served process or notice of proceedings affecting the patent or rights thereunder:

Mr. Marvin Petry, of the firm
LARSON & TAYLOR
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1199, North Fairfax St., #900
Alexandria, Virginia
USA

Full name of the sole or first inventor:

BRAULT, JEAN

Inventor's signature:



Date: 23th decem^{br}. 2003

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Nom complet du second co-inventeur, le cas échéant :

Full name of the second joint inventor, if any:

ROY, ANNIE

Signature du second inventeur :

Second inventor's signature:

Date : 2003-12-23

Date: 2003-12-23

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KRICK, THIERRY

Signature du troisième inventeur :

Third inventor's signature:

Date : 2003-12-23

Date: 2003-12-23 TK

Domicile :

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Citoyenneté :

Citizenship: Canadian

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Nom complet du quatrième co-inventeur, le cas échéant :

Full name of the fourth joint inventor, if any:

Signature du quatrième inventeur :

Fourth inventor's signature:

Date : _____

Date: _____

Domicile :

Residence:

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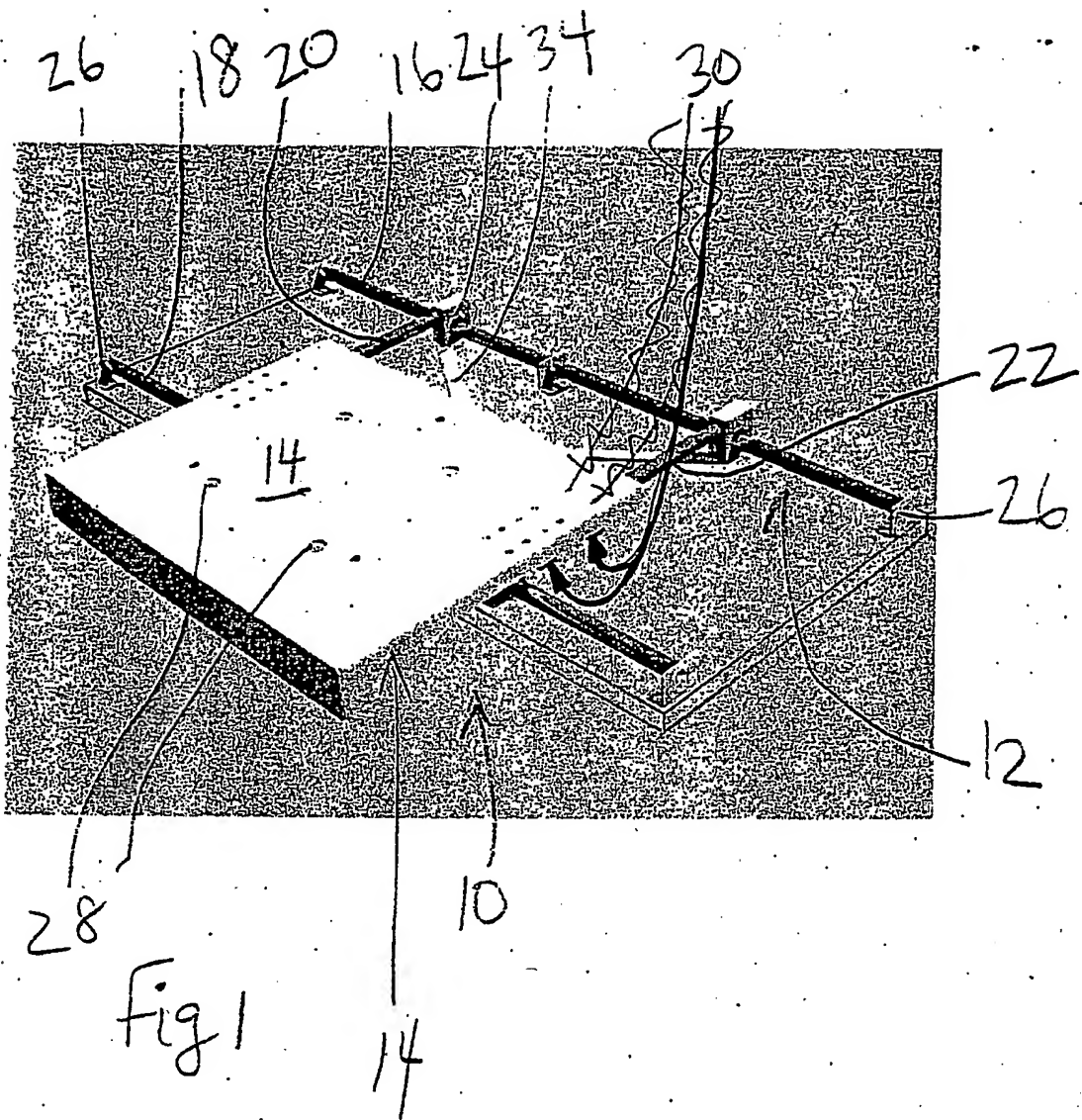
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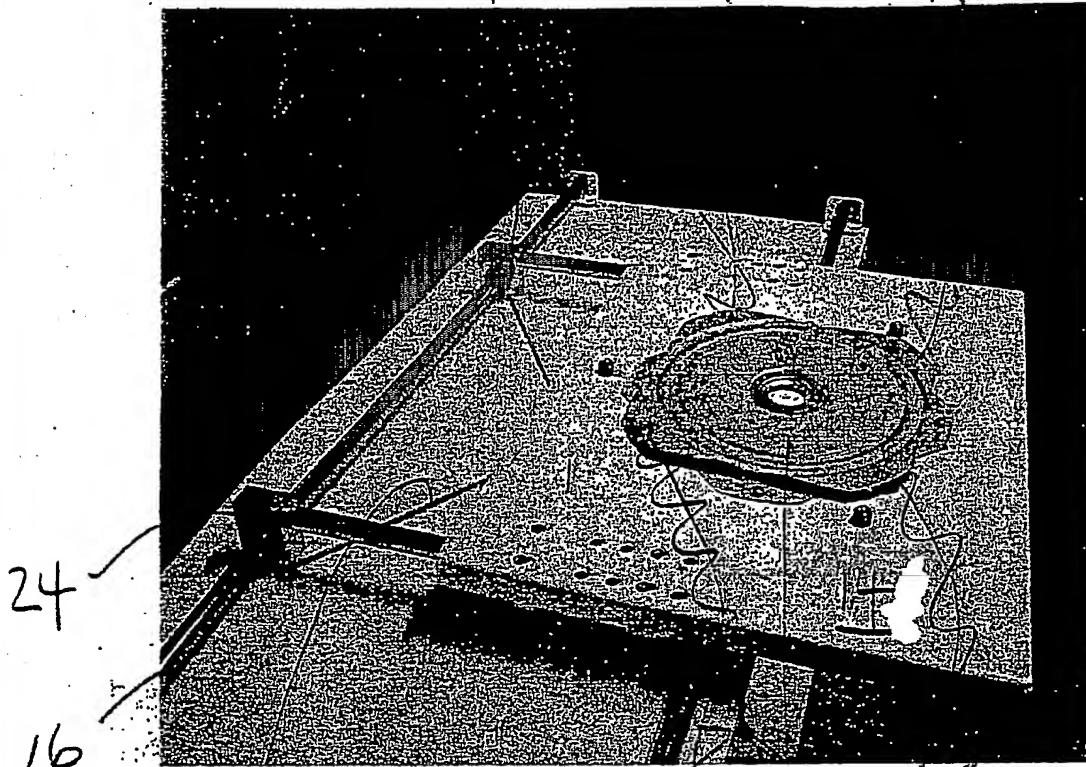
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34 Fig 2

32 18

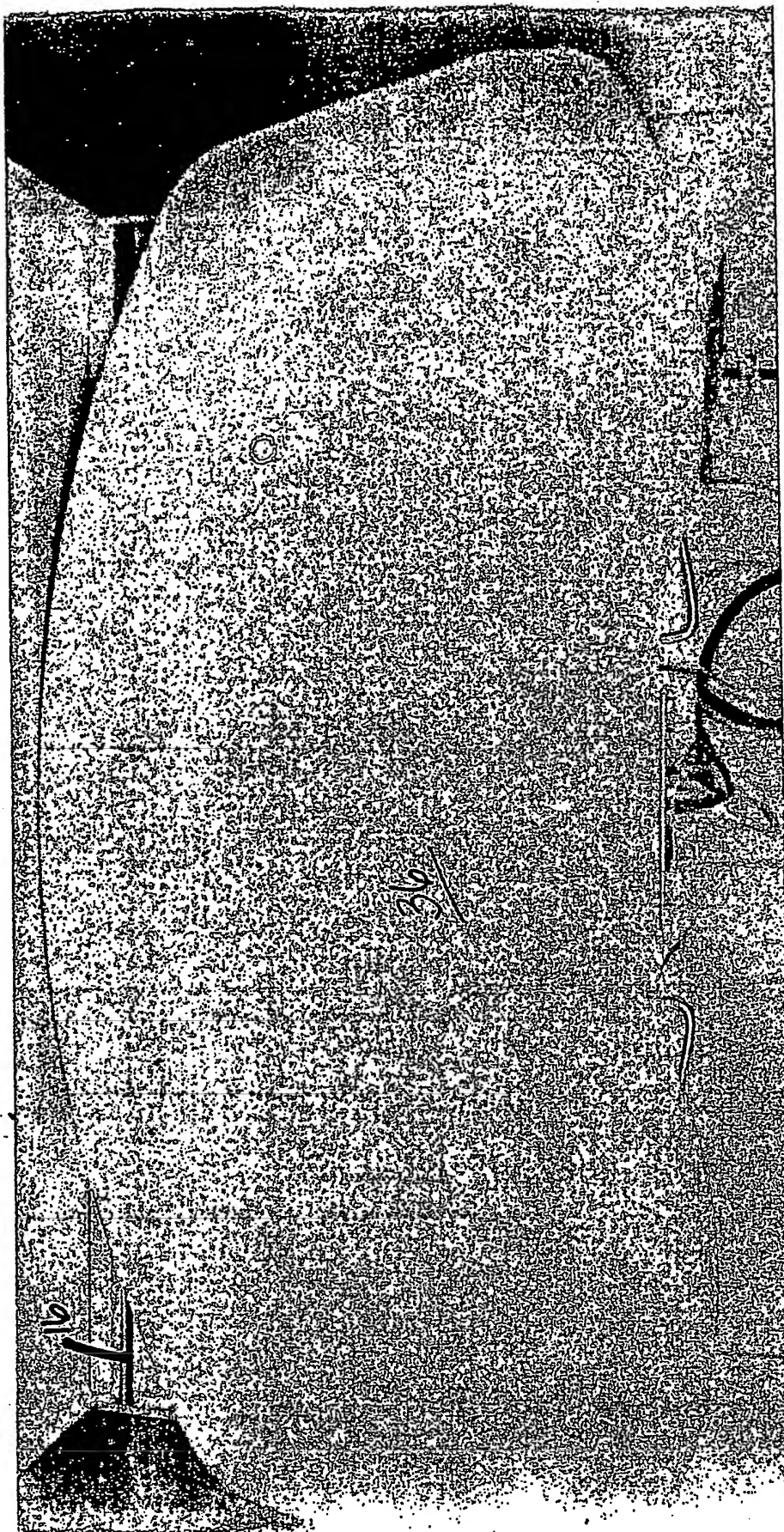


Fig. 3

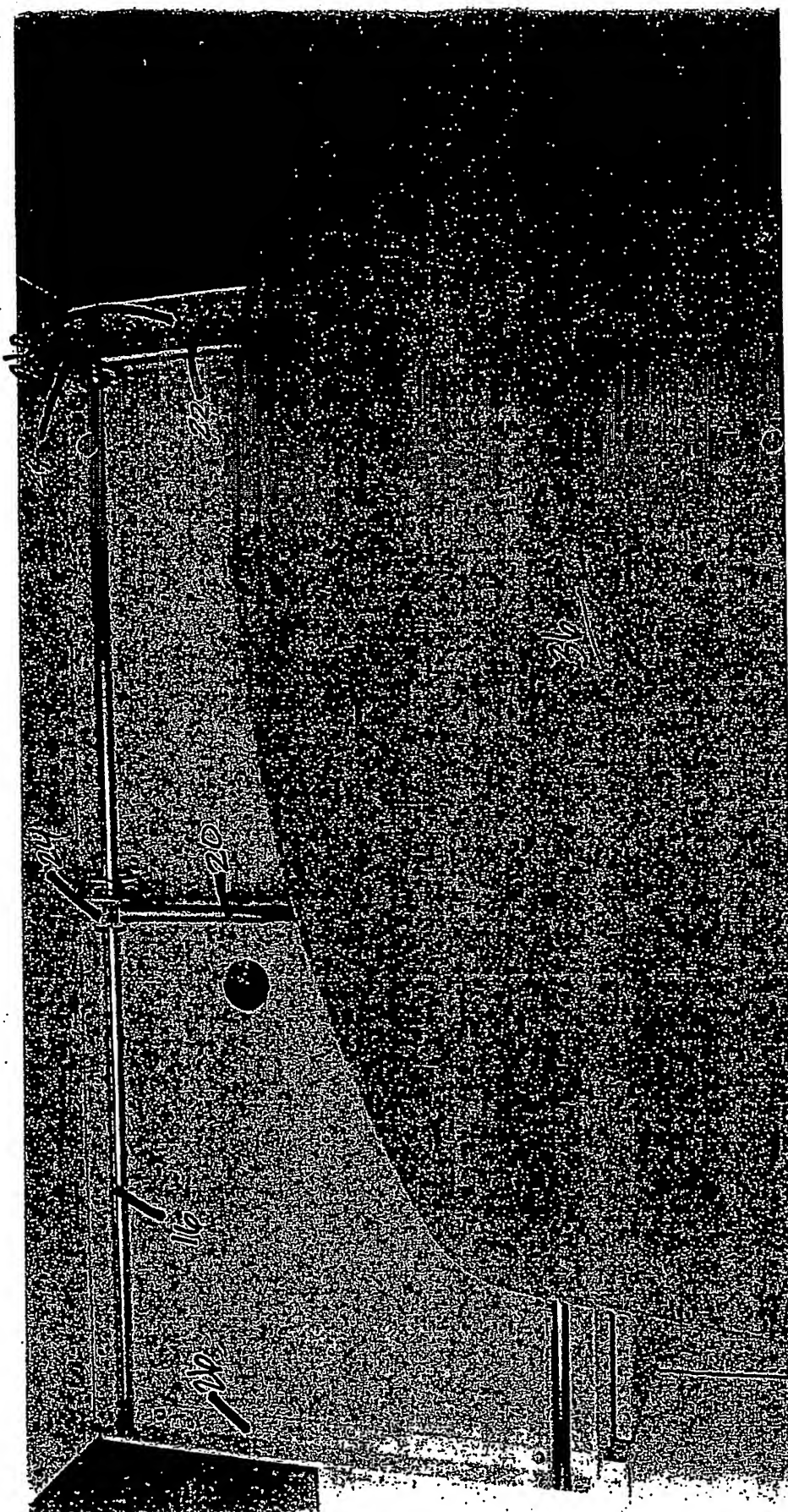


Fig 4

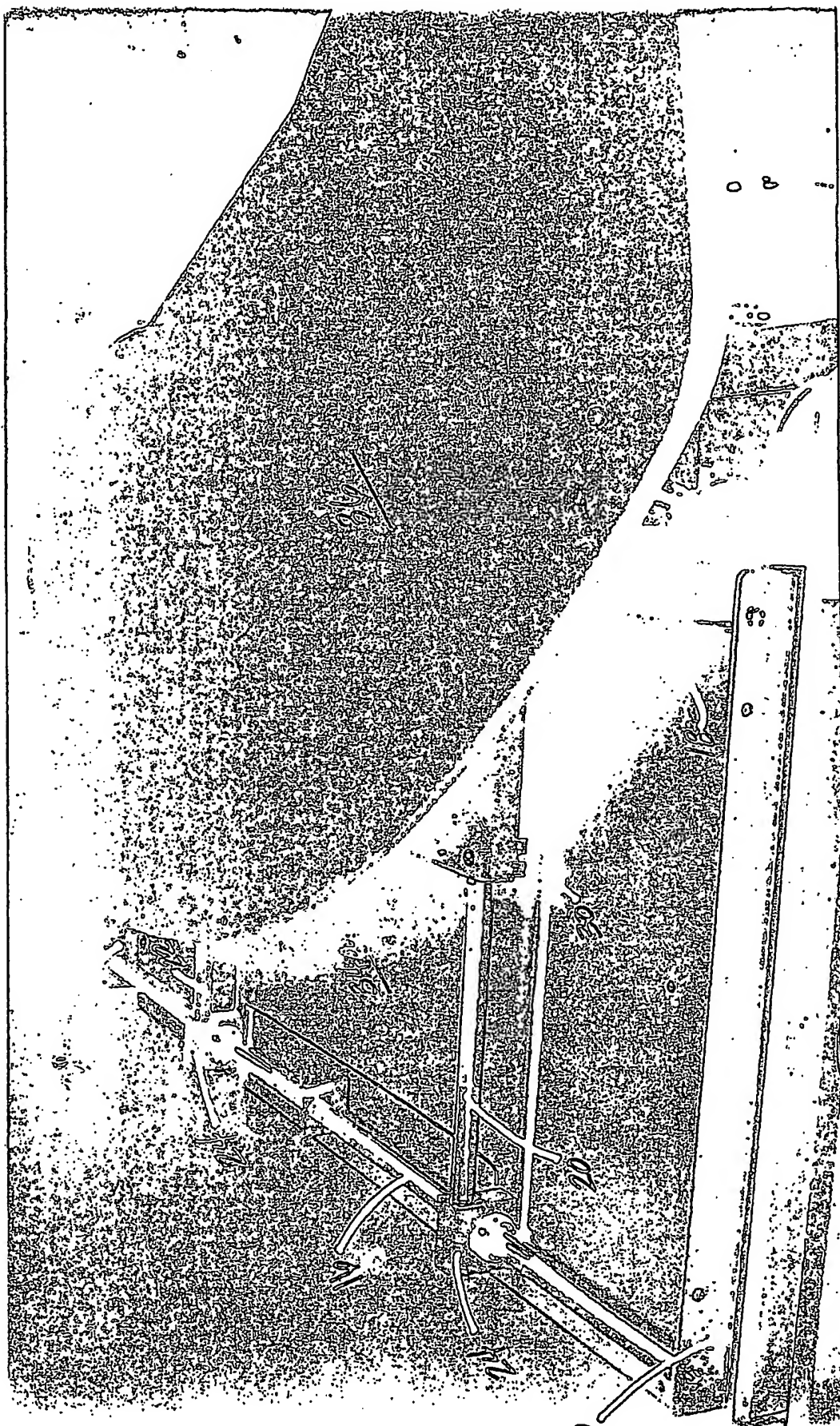


Fig 5

